

<b>SUBMISSION UNDER MPEP 609 D</b>  Page 1 of 3	Application Number	Not Assigned
	Filing Date	10 December 2001
	First Named Inventor	DARROW
	Group Art Unit	Not Assigned
	Examiner Name	Not Assigned
	Attorney Docket Number	ORT-1552

10997 U.S. PTO  
10/015989



### U.S. PATENT DOCUMENTS

Examiner Initials	Cite No. <sup>1</sup>	Name of Patentee or Applicant of Cited Document	U.S. Patent Document		Class/Subclass Pages, Columns, Lines, where relevant passages or relevant figures appear
			Number	Kind Code <sup>2</sup> (if known)	
		<del>Bang et al.</del>	<del>US 4,992,373</del>		
		<del>Bang et al.</del>	<del>US 5,196,322</del>		
		<del>Forster et al.</del>	<del>US 5,200,340</del>		
		<del>Van Eekelen et al.</del>	<del>US 5,217,878</del>		
		<del>Gerlitz et al.</del>	<del>US 5,270,178</del>		
		<del>Samal et al.</del>	<del>US 5,278,062</del>		
		<del>Berg et al.</del>	<del>US 5,326,700</del>		
		<del>Mosher et al.</del>	<del>US 5,342,762</del>		
		<del>Lavallie, Edward R.</del>	<del>US 5,665,566</del>		
		<del>Comb et al.</del>	<del>US 5,834,247</del>		

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Examiner Initials	Cite No. <sup>1</sup>	Name of Patentee or Applicant of Cited Document	Foreign Patent Document			Pages, Columns, Lines, where relevant passages or relevant figures appear	T <sup>6</sup>
			Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup>		
		<del>SmithKline Beecham PLC</del>	<del>PCT</del>	<del>EP 0887414</del>			
		<del>Boehringer Mannheim GmbH</del>	<del>PCT</del>	<del>WO 97/47737</del>			
		<del>Symbiosis Genetics, Inc.</del>	<del>PCT</del>	<del>WO 98/49326</del>			

### OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials <sup>*</sup>	Cite No. <sup>1</sup>	Include name of the author (in CAPITOL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T <sup>2</sup>
		<del>Altschul et al., (1990) Basic Local Alignment.</del>	
		<del>I. Ausubel and M. Frederick, "Short Protocols in Molecular Biology", Molecular biology-Laboratory Manuals (1997).</del>	
		<del>Chen et al., "Expression and Activity-Dependent Changes of a Novel Limbic-Serine Protease Gene in the Hippocampus", J. Neurosci. (1995) 15: 5088-5097.</del>	
		<del>Davis et al., "The Coagulation Cascade: Initiation, Maintenance, and Regulation.", Biochemistry (1991) 30:10363-10370</del>	
		<del>Hansson et al., "Cloning, Expression, and Characterization of Stratum Corneum Chymotryptic Enzyme: A Skin-Specific Human Serine Proteinase", J. Biol. Chem. (1994) 269:19420-19426.</del>	
		<del>R. Huber and W. Bode, "Structural Basis of the Activation and Action of Trypsin", Acc. Chem. Res. (1978) 11:114-122.</del>	
		<del>Inoue et al., "Cloning and Tissue Distribution of a Novel Serine Protease Esp-1 from Human Eosinophils", Biochem. Biophys. Res. Commun. (1998) 252:307-312.</del>	

Examiner Signature	<i>William W. Moore</i>	Date Considered	<i>3 March 2005</i>
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WDM		Ishii et al., "Kinetics of Thrombin Receptor Cleavage on Intact Cells. Relation to Signaling", <i>J. Biol. Chem.</i> (1993) 268:9780-9786.	
WDM		Kossiakoff et al., "Structure of Bovine Trypsinogen at 1.9 ang. Resolution", <i>Biochemistry</i> (1977) 16:654-664.	
WDM	✓	S. Kühn and P. F. Zipfel, "The Baculovirus Expression Vector pBSV-8His Directs Secretion of Histidine-Tagged Proteins", <i>Gene</i> (1995) 12:225-229.	
WDM		J. Kyte and R. F. Doolittle, "A Simple Method for Displaying the Hydrophatic Character of a Protein", <i>J. Mol. Biol.</i> (1982) 157:105-132.	
WDM		Leytus et al., "A Novel Trypsin-Like Serine Protease (Hepsin) with a Putative Transmembrane Domain Expressed by Human Liver and Hepatoma Cells", <i>Biochemistry</i> (1988) 27:1067-1074.	
WDM		Little et al., "Zyme, A Novel and Potentially Amyloidogenic Enzyme cDNA Isolated from Alzheimer's Disease Brain", <i>J. Biol. Chem.</i> (1997) 272:25135-25142.	
WDM		B. Martoglio and R. Dobberstein, "Signal Sequences: More Than Just Greasy Peptides", <i>Trends Cell Biol.</i> (1998) 8:410-415.	
WDM		Matthews et al., "Three-Dimensional Structure of Tosyl- $\alpha$ -Chymotrypsin", <i>Nature (London)</i> (1967) 214:652-656.	
WDM	✓	Nelson et al., "Molecular Cloning and Characterization of Prostase, An Androgen-Regulated Serine Protease with Prostate-Restricted Expression", <i>P. N. A. S. USA</i> (1999) 96:3114-3119.	
WDM		W. R. Pearson and D. J. Lipman, "Improved Tools for Biological Sequence Comparison", <i>P. N. A. S. USA</i> (1988) 85:2444-2448.	
WDM		Pham et al., "Production of Fully Active Recombinant Murine Granzymes B in Yeast", <i>J. Biol. Chem.</i> (1988) 273(3):1629-1698.	
WDM		D. Proud and A. P. Kaplan, "Kinin Formation: Mechanisms and Role in Inflammatory Disorders", <i>Ann. Rev. Immunol.</i> (1988) 6:49-83.	
WDM		N. D. Rawlings and A. J. Barrett, "Families of Serine Peptidases", <i>Methods Enzymol.</i> (1994) 244:19-61.	
WDM		K. B. M. Reid and R. R. Porter, "The Proteolytic Activation Systems of Complement", <i>Ann. Rev. Biochem.</i> (1981) 50:433-464.	
		<del>Sambrook et al., <i>Molecular Cloning: A Laboratory Manual</i>, 2nd Ed. (Cold Spring Harbor Laboratory, Cold Spring Harbor, N.Y. (1989))</del>	
WDM		Sherman et al., "Identification of Tissue-type Plasminogen Activator-specific Plasminogen Activator Inhibitor-1 Mutants", <i>J. Biol. Chem.</i> (1995) 270(16):9301-9306.	
WDM		Stroud et al., "Structure of Bovine Trypsin: Electron Density Maps of the Inhibited Enzyme at 5 ang. and 2.7 ang. Resolution", <i>J. Mol. Biol.</i> (1974) 83:185-208.	

Examiner Signature	W. H. W. Moore	Date Considered	3 March 2005
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WDM		K. Tachias and E. L. Madison, "Converting Tissue-Type Plasminogen Activator into a Zymogen", <i>J. Biol. Chem.</i> (1996) 271:28749-28752.	
WDM		Takayama et al., "Characterization of the Precursor of Prostate-Specific Antigen Activation by Trypsin and by Human Glandular Kallikrein", <i>J. Biol. Chem.</i> (1997) 272:21582-21588.	
WDM		Wang et al., "Production of Active Recombinant Human Chymase from a Construct Containing the Enterokinase Cleavage Site of Trypsinogen in Place of the Native Propeptide Sequence", <i>Biol. Chem. Hoppe-Seyler</i> (1995) 376:681-684.	
WDM	✓	Yamashiro et al., "Molecular Cloning of a Novel Trypsin-Like Serine Protease (Neurosin) Preferentially Expressed in Brain", <i>Biochim. Biophys. Acta</i> (1997) 1350:11-14.	
WDM	✓	Yoshida et al., "Sequence Analysis and Expression of Human Neuropsin cDNA and Gene.", <i>Gene</i> (1998) 213:9-16.	
WDM	✓	Yoshida et al., "cDNA Cloning and Expression of a Novel Serine Protease, TLSP1", <i>Biochim. Biophys. Acta</i> (1998) 1399:225-228.	
WDM	✓	Yu et al., "Molecular Cloning: Tissue Specific Expression and Cellular Localization of Human Prostatic mRNAs", <i>J. Bio. Chem.</i> (1995) 270(22): 13483-13489.	
WDM	✓	Yu et al., "Prostatic is a Novel Human Serine Proteinase from Seminal Fluid: Purification, Tissue Distribution and Localization in Prostate Gland", <i>J. Biol. Chem.</i> (1994) 269:18843-8.	

Examiner Signature	<i>William M. Darrow</i>	Date Considered	<i>5 March 2005</i>
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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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Sheet 1 of 2

Application Number	10/015,989
Filing Date	10 December 2001
First Named Inventor	DARROW
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		Number	Kind Code <sup>2</sup> (if known)			
WJW		4,992,373		Bang et al.	02-12-1991	435/226
		5,196,322		Bang et al.	03-23-1993	435/69.7
		5,200,340		Forster et al.	04-06-1993	424/94.64
		5,217,878		Van Eekelen et al.	06-08-1993	435/69.1
		5,270,178		Gerlitz et al.	12-14-1993	435/69.1
		5,278,062		Samal et al.	01-11-1994	435/223
		5,326,700		Berg et al.	07-05-1994	435/240
		5,342,762		Mosher et al.	08-30-1994	435/69.3
		5,665,566		Lavallie, Edward R.	09-09-1997	435/69.3
		5,834,247		Comb et al.	11-10-1998	435/69.7
		5,726,038	A	Christiansen	03-10-1998	435/69.1
		5,504,001	A	Foster	04-02-1996	435/219

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Examine r Initials	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document mm-dd-yyyy	Pages, Columns, Lines, where relevant passages or relevant figures appear	T <sup>3</sup>
		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup>				
WJW		EP	0887414		SmithKline Beecham PLC	12-30-1998	—	
WJW		WO	97/47737		Boehringer Mannheim GmbH	12-18-1997	—	
WJW		WO	98/49326		Symbiosis Genetics, Inc.	11-05-1998	—	

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		ALTSCHUL ET AL., (1990) Basic Local Alignment	
		AUSUBEL AND M. FREDERICK, "Short Protocols in Molecular Biology", Molecular Biology Laboratory Manuals (1997).	
WJW		CHEN ET AL., "Expression and Activity-Dependent Changes of a Novel Limbic-Serine Protease Gene in the Hippocampus", J. Neurosci. (1995) 15: 5088-5097.	
WJW		DAVIE ET AL., "The Coagulation Cascade: Initiation, Maintenance, and Regulation.", Biochemistry (1991) 30:10363-10370	

Examiner Signature	<i>William W. Moore</i>	Date Considered	3 March 2005
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<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

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		LEYTUS ET AL., "A Novel Trypsin-Like Serine Protease (Hopsin) with a Putative Transmembrane Domain Expressed by Human Liver and Hepatoma Cells", <i>Biochemistry</i> (1988) 27:1067-1074.	
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		B. MARTOGLIO AND R. DOBBERSTEIN, "Signal Sequences: More Than Just Greasy Peptides", <i>Trends Cell Biol.</i> (1998) 8:410-415.	
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		SHERMAN ET AL., "Identification of Tissue-type Plasminogen Activator specific Plasminogen Activator Inhibitor-1 Mutants", <i>J. Biol. Chem.</i> (1995) 270(16):9301-9306.	
		STROUD ET AL., "Structure of Bovine Trypsin: Electron Density Maps of the Inhibited Enzyme at 5. ang. and 2.7. ang. Resolution", <i>J. Mol. Biol.</i> (1974) 83:185-208.	
		K. TACHIAS AND E. L. MADISON, "Converting Tissue-Type Plasminogen Activator into a Zymogen", <i>J. Biol. Chem.</i> (1996) 271:28749-28752.	
		TAKAYAMA ET AL., "Characterization of the Precursor of Prostate-Specific Antigen Activation by Trypsin and by Human Glandular Kallikrein", <i>J. Biol. Chem.</i> (1997) 272:21582-21588.	
		WANG ET AL., "Production of Active Recombinant Human Chymase from a Construct Containing the Enterokinase Cleavage Site of Trypsinogen in Place of the Native Propeptide Sequence", <i>Biol. Chem. Hoppe-Seyler</i> (1995) 376:681-684.	
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		YU ET AL., "Molecular Cloning: Tissue Specific Expression and Cellular Localization of Human Prostatin mRNA", <i>J. Bio. Chem.</i> (1995) 270(22): 13483-13489.	
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**ORT-1552**

10/015,989

**APPLICANT**

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